

tember 30 to October 4. The technical program will be divided into three parts: (1) general spectroscopy, including the theory of spectra, astrophysical spectroscopy, and the spectroscopy of plasmas; (2) spectrochemical analyses, including emission and absorption spectroscopy in both the visible spectrum and the ultraviolet, and infrared and Raman techniques; and (3) other methods, including microwave spectroscopy, electron-paramagnetic and nuclear-magnetic resonance, x-ray fluorescence and luminescence, and mass and gamma spectroscopy. An exhibit of instruments is also being planned.

Inquiries should be directed to Dr. V. Vukanović, Prirodno—matematički fakultet, Fizičkohemijski zavod, Studentski trg 16, Blok C, Belgrade, Yugoslavia.

Physics and Nondestructive Testing

A symposium on physics and nondestructive testing, sponsored by the Southwest Research Institute, will be held at El Tropicano Hotel in San Antonio, Tex., October 1-3. Emphasis will be given to the fundamental physics underlying the methods and techniques of evaluating material properties by nondestructive testing. The program is expected to include papers dealing with the Mössbauer effect, the physics of failure, crack growth, radiology, and residual stress measurements by ultrasonics.

Further information can be obtained from Warren J. McGonnagle, Southwest Research Institute, 8500 Culebra Rd., San Antonio 6, Tex.

Nuclear Chemistry

Analytical instrumentation will be the theme of the Seventh Conference on Analytical Chemistry in Nuclear Technology, to be held October 8-10 at Gatlinburg, Tenn., under the sponsorship of Oak Ridge National Laboratory. The Conference will consist of six sessions devoted to instrumental methods for the analysis of molten-salt systems, instrumentation for the remotely controlled analysis of radioactive materials, electroanalytical instrumentation, analytical spectroscopy and gas chromatography, instrumentation in radiochemistry and nuclear analysis, and recent developments in analytical instrumentation.

Inquiries should be directed to C. D. Susano, Oak Ridge National Laboratory, PO Box X, Oak Ridge, Tenn.

Compound Nuclear States

Gatlinburg will also be the site of a meeting on compound nuclear states, which is to be held on October 10, 11, and 12 under the cosponsorship of the Oak Ridge National Laboratory and the American Physical Society. Designated as an APS topical conference, the meeting is open to members of the Physical Society and abstracts must conform to the requirements specified in the Society's *Bulletin*.

September 6 has been set as the deadline for the sub-

mission of abstracts. Contributors may also submit 600-word summaries, accompanied by one or two figures. The summaries (or abstracts in cases where no summaries are included) will be reproduced and distributed at the conference. Abstracts and summaries should be sent to Dr. J. L. Fowler, Oak Ridge National Laboratory, PO Box X, Oak Ridge, Tenn. Requests for accommodations should be sent to Mr. Tom Woods, Manager, Mountain View Hotel, Gatlinburg, Tenn.

Gaseous Electronics

Another topical conference of the American Physical Society, sponsored jointly by the Westinghouse Research Laboratories and the University of Pittsburgh, is the sixteenth annual Gaseous Electronics Conference which will take place October 16-18 in the auditorium of the Mellon Institute in Pittsburgh.

The program will deal with the basic atomic processes and phenomena associated with the physics of ionized gases. Papers on engineering applications and specific devices will not be included. Abstracts of contributed papers (conforming to Physical Society specifications) must be received no later than August 23 by Dr. George J. Schulz, Westinghouse Research Laboratories, Beulah Road, Pittsburgh 35, Pa. Inquiries concerning the meeting should be sent to Dr. M. A. Biondi, University of Pittsburgh, Pittsburgh 13, Pa.

Optical Society

October 23 to 25 are the dates of this year's annual meeting of the Optical Society of America, which is to be held at the Sherman House in Chicago. A symposium is planned on atmospheric transmission and earth albedo, with invited papers by R. Zirkind, D. Gates, C. Cummings, T. Fujita, and H. Blau. Other invited speakers at the meeting will include H. Levinstein on infrared detectors, H. Davidson on automation of color production, C. Mueller on vision, G. W. Robinson on spectroscopy, B. Lax on masers, and J. Atwood on coherent light sources and optical instrumentation. There will also be an address given by this year's Ives medallist.

Abstracts of (15-minute) contributed papers must be received by the Society's executive office no later than August 15. The necessary forms can be obtained from Dr. Mary E. Warga, Executive Secretary, Optical Society of America, 1155 Sixteenth Street, N.W., Washington 6, D. C.

IEEE

The Nuclear Science and the Ultrasonic Engineering professional groups of the Institute of Electrical and Electronics Engineers have each announced plans for meetings to take place later this year. (The IEEE is the organization formed by the recent merger of the Institute of Radio Engineers and the American Institute of Electrical Engineers.)

Objective:

Constant acceleration of progress...in aerospace technology

The problems become continuously more complex and sophisticated. Their resolution is urgent.

The United States Air Force has designated the Air Force Systems Command as the single overall manager for the many steps involved in the acquisition of aerospace systems—including research, advanced technology, development, test, procurement, contract management and missile site activation.

To provide essential direction and support to this broad spectrum of challenging programs, AFSC maintains its own in-house capability through a number of divisions, centers and contract management regions located throughout the nation. The responsibilities and missions assigned to these highly specialized organizations embrace most of the basic scientific and engineering disciplines and their interrelations plus procurement, contract

management and related support activity.

The civilian-military staff of AFSC makes direct contributions to some of this nation's most complex and vital aerospace programs. This provides an opportunity for the scientists and engineers of AFSC to work across a broad spectrum of technical areas. Many of the basic ideas, techniques, and concepts on which future Air Force systems are based come from AFSC's own staff.

AFSC employment benefits include patent protection for inventions, opportunity for advanced study, authorship credit on scientific papers, honorary, academic and cash awards, promotion based on merit, health and retirement benefit programs, low cost life insurance, paid vacations and sick leave, plus all the benefits of civil service.

AIR FORCE SYSTEMS COMMAND

has immediate openings for engineers and scientists in these areas.

AEROSPACE ENGINEER—Must have ability to evaluate present and proposed missile systems.

ELECTRONIC ENGINEERS—Feasibility and applicability studies of new and novel techniques in systems and equipment analysis.

RESEARCH ENGINEER—Must have intensive background in fluid and flight mechanics.

INSTRUMENTATION ENGINEER—Must be able to design and perform operational maintenance on instrumentation utilized in guidance systems testing.

INDUSTRIAL ENGINEER—Will have responsibility for evaluating production systems and/or quality control procedures.

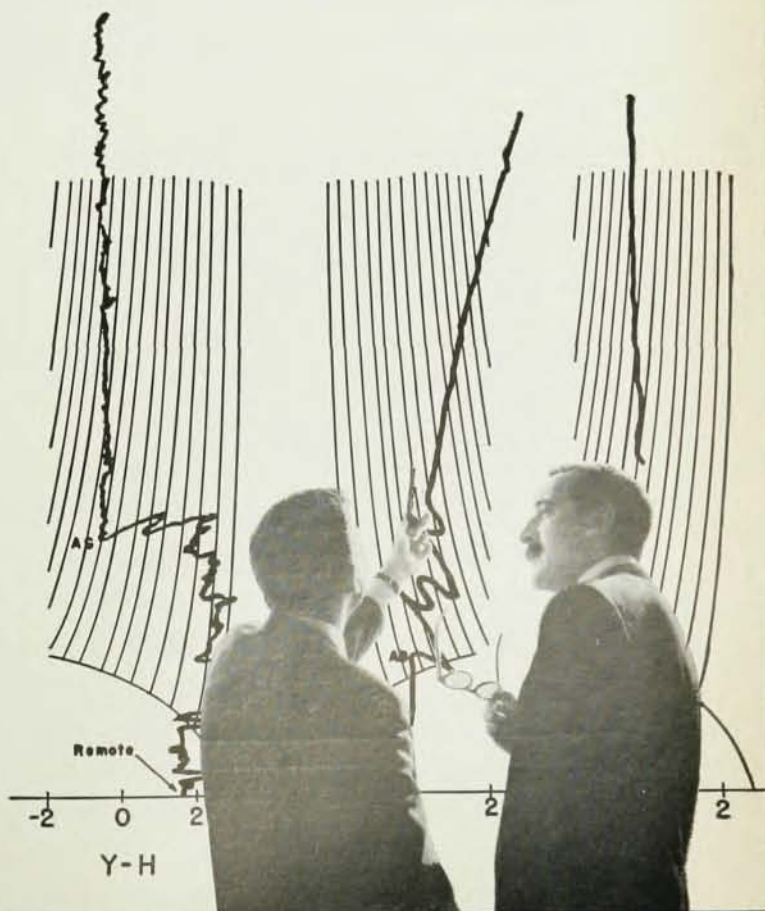
HEALTH PHYSICIST—Will perform research, evaluation and monitoring of environmental factors as applied to advanced nuclear and radiological programs.

Scientists and engineers interested in joining the staff of AFSC are invited to send their resume or Application for Federal Employment (SF-57) with geographical preference and salary requirement to:

United States Air Force

AFSC-AFLC Joint Professional Placement Office
527 Madison Avenue, Dept. M, New York 22, N. Y.

An Equal Opportunity Employer



SENIOR SCIENTIST

Ph.D. Theoretical Nuclear Physics

Requires a thorough knowledge of nuclear weapons effects, upper atmosphere physics, space physics and special instrumentations. To head programs in analysis of nuclear debris cloud motion from experimental data and plan studies in ionospheric and space physics and chemistry. Exceptional opportunity for personal and professional growth. Position with West Coast R. & D. company. Salary to \$22,000 per annum.

Box 663A, Physics Today, 335 E. 45 St., New York 17, N. Y.

An equal opportunity employer

SOLID STELLITE-PRECISION GRADE PARABOLIC REFLECTORS

AN OPPORTUNITY TO MAKE A RARE PURCHASE:

- 25-1/4" Diameter • 24" Serviceable Reflector Area • Sphere of Confusion 4/32"
- Corrosion Resistant • Mathematically True Paraboloid • Designed for a pinpoint focus with central focal axis perpendicular to the plane of the paraboloid reflective surface
- Concave Reflective Surface optically polished producing an optically efficient first surface reflector • Haynes Stellite Alloy 23, has low linear co-efficient of expansion • Focal Point 9-11/16 inches • Approximate thickness 3/16" • Reflectivity 83% • Weight 27 to 30 pounds each • Manufactured by BAUSCH & LOMB, CHRYSLER CORP.

The following are a few recent satisfied customers:
 Battle Memorial Institute, Columbus, Ohio • University of Oxford, Oxford, England • Brookhaven Nat'l. Lab., Upton, Long Island • National Bureau of Standards, Boulder, Colo. • M.I.T., Boston • I.B.M.

PRICE 1/3 ORIGINAL COST. F.O.B. DETROIT, MICH.

AIR FREIGHT — FOR SAFE HANDLING

WALKER METAL COMPANY

HI-TEMP ALLOYS

20413 Lichfield Road • Detroit 21, Mich.

The Nuclear Science group, which meets October 29-31 at the El Cortez Hotel in San Diego, has scheduled among its other sessions a symposium on plasma phenomena and measurements. The program is expected to include papers on plasma generation and diagnostics, jets and propulsion, plasma waves, thermal plasma generation and measurements, controlled-fusion instrumentation, materials for high-energy plasmas, measurements of plasmas in space, nuclear instrumentation, high-temperature shocks, space radiation effects, and microwave diagnostics. Abstracts of proposed contributions (limited to 100 words) should be sent in duplicate to Robert DeLosh, Bendix Systems Division, Ann Arbor, Mich.

This year's ultrasonics symposium will be held December 4-6 at the Marriott Motor Hotel in Washington, D. C. Microwave ultrasonics will receive particular attention, but the program will also cover industrial devices, piezoelectric resonators, delay lines and mechanical filters, ultrasonic image-forming and display devices, and internal friction in solids at ultrasonic frequencies. Two-hundred-word abstracts of contributed papers, in triplicate, are due by August 15, and should be sent to Dr. T. R. Meeker, Bell Telephone Laboratories, 555 Union Boulevard, Allentown, Pa. To insure uniform treatment of abstracts, authors have been asked to follow the rules for the preparation of abstracts used by the American Physical Society as listed in all issues of the *Bulletin* of the APS.

General information concerning the two meetings can be obtained from the Institute of Electrical and Electronics Engineers, Box A, Lenox Hill Station, New York 21, N. Y.

Magnetism Conference

The Ninth Annual Conference on Magnetism and Magnetic Materials will be held November 12-15 in Atlantic City, N. J., under the sponsorship of the American Institute of Physics and the Institute of Electrical and Electronics Engineers.

Contributed papers are solicited on basic theoretical and experimental investigations, potential engineering applications, and apparatus and techniques involving recent advances in magnetism. The Program Committee is also encouraging papers relating superconductivity and magnetism. In addition to the program of contributed papers, addresses will be presented by invited speakers from the United States and abroad.

Abstracts must be received before August 15 by W. L. Shevel, Jr., IBM Research Center, P.O. Box 218, Yorktown Heights, N. Y. Other inquiries should be addressed to William D. Doyle, Franklin Institute Laboratories, Philadelphia 3, Pa.

Physics of Fluids

The 1963 meeting of the American Physical Society's Division of Fluid Dynamics will be held on the campus of the Massachusetts Institute of Technology on No-